## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	DOT/IOA/OOA
P033751-P0		see Form PCT/ISA/220 l as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/JP2004/004183	25/03/2004	25/03/2003
Applicant		
·		
MATSUSHITA ELECTRIC INDUST	RIAL CO., LTD.	
This International Search Report has been according to Article 18. A copy is being tra	prepared by this International Searching Authorsmitted to the International Bureau.	ority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	•
It is also accompanied by	a copy of each prior art document cited in this	report.
Basis of the report     With regard to the language, the is language in which it was filed, unle	nternational search was carried out on the bases otherwise indicated under this item.	is of the international application in the
The international s this Authority (Rule	earch was carried out on the basis of a translate 23.1(b)).	tion of the international application furnished to
b. With regard to any <b>nucleo</b>	tide and/or amino acid sequence disclosed i	n the international application, see Box No. I.
2. Certain claims were foun	d unsearchable (See Box II).	
3. X Unity of invention is lack	ing (see Box III).	
4. With regard to the <b>title</b> ,		
the text is approved as sub	mitted by the applicant.	
	ed by this Authority to read as follows:	
MULTI MODE RECEIVER WIT	TH TIME-SHARED PROCESSING	
		•
5. With regard to the abstract,		
the text is approved as subj		
the text has been established may, within one month from	ed, according to Rule 38.2(b), by this Authority the date of mailing of this international search	as it appears in Box No. IV. The applicant report, submit comments to this Authority.
, 6. With regard to the drawings,		
<ul> <li>a. the figure of the drawings to be put</li> </ul>	olished with the abstract is Figure No3	
X as suggested by the		
	Authority, because the applicant failed to sugg	
	Authority, because this figure better characterize	zes the invention.
b. none of the figures is to be p	bublished with the abstract.	

Form PCT/ISA/210 (first sheet) (January 2004)

International application No. PCT/JP2004/004183

## INTERNATIONAL SEARCH REPORT

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
з	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inter	rnational Searching Authority found multiple inventions in this international application; as follows:
	see additional sheet
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  1-4, 7, 12-16
Remark o	on Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

#### 1. claims: 1-4, 7, 12-16

The first invention, which is constituted by the subject-matter of claim 3, defines a wireless terminal receiving two signals related to a first and a second service, wherein a tuner unit generates a first baseband signal demodulated by a first baseband unit and a second baseband signal demodulated by a second baseband unit one at a time according to a switching signal, and wherein the second service is a bidirectional communication service and the wireless terminal further comprises a transmitting unit. Note that independent claims 1 and 15 and dependent claims 2, 7, 12-14 and 16 do not constitute an invention (because their subject-matter lacks an inventive step with regard to the disclosure of Document US 6483456 as set out below), but have formally been associated with the first invention, since they have been searched together with the first invention.

#### 2. claims: 5,6,17

Claim 5 is directed to a wireless terminal receiving two signals related to a first and a second service, wherein a tuner unit generates a first baseband signal demodulated by a first baseband unit and a second baseband signal demodulated by a second baseband unit one at a time according to a switching signal, and wherein the tuner unit comprises two tuners operable to generate the first and second baseband signals, respectively, in accordance with said switching signal.

#### 3. claim: 8

Claim 8 is directed to a wireless terminal receiving two signals related to a first and a second service, wherein a tuner unit generates a first baseband signal demodulated by a first baseband unit and a second baseband signal demodulated by a second baseband unit one at a time according to a switching signal, and wherein the wireless terminal further comprises a first and a second antenna adapted to the first and second signals and wherein the tuner unit comprises a switching unit to select one of the antennae.

#### 4. claim: 9

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Claim 9 is directed to a wireless terminal receiving two signals related to a first and a second service, wherein a tuner unit generates a first baseband signal demodulated by a first baseband unit and a second baseband signal demodulated by a second baseband unit one at a time according to a switching signal, and wherein the tuner unit includes a variable bandpass filter.

#### 5. claim: 10

Claim 10 is directed to a wireless terminal receiving two signals related to a first and a second service, wherein a tuner unit generates a first baseband signal demodulated by a first baseband unit and a second baseband signal demodulated by a second baseband unit one at a time according to a switching signal, and wherein the first service is provided by a cellular system providing a plurality of base stations and the second service is a positioning service and wherein a base station is selected in dependence on a position determined from the signal related to the second service.

#### 6. claim: 11

Claim 11 is directed to a wireless terminal receiving two signals related to a first and a second service, wherein a tuner unit generates a first baseband signal demodulated by a first baseband unit and a second baseband signal demodulated by a second baseband unit one at a time according to a switching signal, and wherein the terminal determines its moving speed from the second signal and selects an operating mode for processing of the first signal in dependence on the moving speed.

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International Application No PCT/JP2004/004183

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04H1/00 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 H04H G01S H03J Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Х US 6 483 456 B2 (HUISKEN JOSEPHUS 1,2,7, ANTONIUS) 19 November 2002 (2002-11-19) 12-16 abstract column 1, lines 6-10 column 1, lines 29,30 column 1, line 29 - line 30 column 3, line 3 - line 53 figures 1,4 Α EP 1 039 311 A (FRANCE TELECOM) 1-4,7, 27 September 2000 (2000-09-27) 12-16 abstract paragraphs [0001], [0002], [0017], [0039] - [0046] figures 2,3 -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international filing date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 17. 11. 2005 7 April 2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Burkert, F Fax: (+31-70) 340-3016

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International Application No
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Category °	citation DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Belovest to all 1
Calegory -	ondition of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01/08441 A (KONINKLIJKE PHILIPS ELECTRONICS N.V) 1 February 2001 (2001-02-01) abstract; figure 2	3,4
1	US 2002/010763 A1 (SALO JUHA ET AL) 24 January 2002 (2002-01-24) abstract pages 2,3	3,4
	figure 2	
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## · INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/JP2004/004183

	ent document in search report		Publication date		Patent family member(s)		Publication date
US	6483456	B2	19-11-2002	CN WO JP US	1380984 0190772 2003534687 2002003494	A1 T	20-11-2002 29-11-2001 18-11-2003 10-01-2002
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· US 2	2002010763	A1	24-01-2002	AT AU CN DE DE WO EP ES GB	1449625 60105429 60105429 0201879 1300022 2227254	T A A D1 T2 A2 A2 T3 A	15-09-2004 08-01-2002 15-10-2003 14-10-2004 13-10-2005 03-01-2002 09-04-2003 01-04-2005 16-01-2002